

### Amendment to the Claims

Please amend the claims as follows. A marked-up version of the amended claims, showing the changes made thereto, is included in Exhibit A.

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- A1
1. A water current measuring system comprising:
    - an ROV;
    - an ADCP coupled to the ROV; and
    - a computer system for receiving and processing ADCP data and ROV data and displaying processed data in real time as the ADCP and ROV are moving in the vertical direction through a water column;
      - wherein the processed data includes depth and heading data from the ADCP data if such depth and heading data is of a sufficient quality.

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- A2  
Cont'd.
8. A method for processing water current measurements in real time, comprising the steps of:
    - receiving depth and heading data from ROV;
    - receiving from an ADCP as the ADCP is moving in the vertical direction through a water column water current velocity data associated with depth cells within a water column;
    - receiving depth and heading data from the ADCP if the depth and heading data of the ADCP is substantially free of interference;
    - processing the current velocity data from each depth cell into data associated absolute depth;
    - assigning absolute depth data to virtual bins;